# iSMA-B-MINI-IP

## MINI IO Modules IP Series

**iSMA-B-MINI-IP Software Bundle 6.5**                                                          **13 Oct 2020**

The list below contains modifications and new features since the release of software bundle version 6.4.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 6.5** Release date 13 Oct 2020 | **Improvements:**<br>• the default BBMD IP address set to 0.0.0.0;<br>• registering to the BBMD server is disabled if the BBMD IP address is left default;<br>• added option to disable the web server access by setting the HTTP port to 0;<br>• 4U4O: if the default temperature sensor is set to Fahrenheits, the default setpoint temperature is 70°F;<br>• BACnet stability improvement.<br><br>**Fixed Bugs:**<br>• fixed Modbus statistics on www: Modbus Received / Error / Transmitted Frames;<br>• fixed BACnet ID changes to reload settings;<br>• fixed loss of frames over the BACnet IP;<br>• fixed UI filter reset in case of short disconnection of the sensor;<br>• PT1000 temperature sensor fix for readings over 350°C. |

**iSMA-B-MINI-IP Software Bundle 6.4**                                                          **3 Jun 2020**

The list below contains modifications and new features since the release of software bundle version 6.3.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 6.4** Release date 3 Jun 2020 | **Fixed Bugs:**<br>• fixed TCP/UDP/IP stack issue, caused by 6.3 firmware that may have frozen BACnet IP communication;<br>• temperature value of disconnected sensor on UI restored to min/max INT value, issue caused by 6.3 firmware. |

The list below contains modifications and new features since the release of software bundle version 6.2.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 6.3** Release date 3 Mar 2020 | **New Functionalities:** <br>• new temperature sensors implemented in Celsius and Fahrenheit degrees: <br><br>| Celsius | Fahrenheit |<br>|---------|------------|<br>| NI1000 21C NI1000 LG | 10K Type2 NTC B=3975K 10K Type3 NTC B=3695K 20K NTC B=4262K 3K NTC B=3975K PT1000 NI1000 32F NI1000 70F |<br><br>• upgraded built-in Web page with all new temperature sensors; <br>• new Modbus function 0x17 Read/Write Multiple registers <br>• new Modbus function 0x2B to read the VENDOR_NAME,MODEL_NAME, FW_VERSION, HOMEPAGE <br>• supporting Modbus address 0xFF for communication with gateway (IP module). <br><br>**Improvements:** <br>• improved filtering on UI; <br>• Device Name (Object Name) in BACnet is saved in EEPROM memory. <br><br>**Fixed Bugs:** <br>• fixed one record in sensor 30k6A1 table –resistance 60713 to 80713 (5°C); <br>• "Send I Am" message is not sent if BACnet is turned off. |

The list below contains modifications and new features since the release of software bundle version 6.1.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 6.2** Release date 30 Jul 2018 | **New Functionalities:** <br>• support new HW V3.2 with UL certification by iSMA Configurator. <br><br>**Fixed Bugs:** <br>• fixed Modbus TCP/IP socket timeout issue. |

The list below contains modifications and new features since the release of software bundle version 6.0.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 6.1** Release date 12 Apr 2018 | **Fixed Bugs:** <br>• fixed reset of live time value; <br>• fixed inputs/outputs Watchdog issue related to live time value. |

The list below contains modifications and new features since the release of software bundle version 5.5.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 6.0**<br>Release date<br>7 Dec 2017 | **New Functionalities:**<br>• firmware Version 6.0 released with BACnet certification;<br>• added possibility to upgrade devices firmware via BACnet.<br><br>**Fixed Bugs:**<br>• fixed out of service flags in AO, BO and TO in BACnet;<br>• fixed overridden flags in AO, BO and TO in BACnet;<br>• fixed bug with number of counters for Binary Input object (now variable is 32-bit);<br>• changed AO-1, BO-1, TO-1 HAND_STATUS Access to read only in BACnet. |

The list below contains modifications and new features since the release of software bundle version 5.0.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 5.5**<br>Release date<br>1 Jun 2017 | **New Functionalities:**<br>• added new proprietary properties in BACnet Device object: HW version, Modbus register 0 reference, RS485 biasing, RS485 actual baud rate, RS485 user baud rate, IP address, subnet, gateway, HTTP port, UDP port;<br>• added new Modbus registers: HW version, MAC address;<br>• added new elements on built-in web page: HW version, RS485 biasing.<br><br>**Improvements:**<br>• improved Ethernet communication in Modbus gateway mode.<br><br>**Fixed Bugs:**<br>• fixed built-in web page (now BACnet COV Increment always in format with one decimal place). |

The list below contains modifications and new features since the release of software bundle version 4.7.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 5.0** Release date 4 Jan 2017 | **New Functionalities:** <br>• new HVAC functions Heating and Cooling in 4U4O based on output thermostatic control with a setpoint and differential value setting;<br>• added new input mode for 4I4O: Time Relay NC [ms], Time Relay NO and NC in seconds, Input Forwarding;<br>• added new input mode for 4U4O: Ordinary IO, Monostable Relay, Bistable Relay, Time Relay NO and NC [ms], Time Relay NO and NC in seconds, Input Forwarding, Heating, Cooling with corresponding BACnet objects and Modbus registers;<br>• added reset output to default after input mode change in 4U4O and 4I4O.<br><br>**Improvements:** <br>• improved BACnet COV Increment can now have values with resolution 0.1;<br>• added power Led flashing after IO watchdog triggered;<br>• added immediately detecting sensors short circuit and disconnection regardless of filter settings on universal inputs;<br>• added to Built-in Web page new modes in 4U4O as an additional table in UI tab.<br><br>**Fixed Bugs:** <br>• fixed bug with Stop bits, was always 1. |

The list below contains modifications and new features since the release of software bundle version 4.6.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 4.7** Release date 28 Sep 2016 | **Improvements:** <br>• Modbus TCP exception codes improved;<br>• UI filter improved (better signal stability at a lower filter time constant);<br>• improved Ethernet stability (when module receive lots of errors on MAC layer will run auto-negotiation mode one more time).<br><br>**Fixed Bugs:** <br>• fixed built-in web page (4I4O special modes fixed, BACnet COV Increment "0" value cannot be set, getting counter 4 fixed);<br>• fixed physical output state when priority table is null in BACnet Binary/Analog/Triac Output object (when priority table is null physical output is set to relinquish default value). |

The list below contains modifications and new features since the release of software bundle version 4.5.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 4.6** Release date 13 May 2016 | **Fixed Bugs:** <br>• fixed DI tab in the built-in web page (in FV V4.5 entering this tab refreshed whole page). |

The list below contains modifications and new features since the release of software bundle version 4.4.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 4.5** Release date 30 Mar 2016 | **New Functionalities:**<br>• added new module 4TO-H-IP.<br><br>**Improvements:**<br>• improved algorithm of handling Modbus TCP connections and data (when incorrect data arrives device will close the connection);<br>• improved Ethernet stability when device receive invalid Ethernet frame. |

The list below contains modifications and new features since the release of software bundle version 4.2.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 4.3** Release date 18 Jan 2016 | **Improvements:**<br>• improved UI measurement for 16-bit resolution. |

The list below contains modifications and new features since the release of software bundle version 2.8.

| NAME | DESCRIPTION |
|------|-------------|
| **iSMA-B-MINI-IP Ver. 4.2** Release date 12 Jan 2016 | **New Functionalities:**<br>• new BACnet objects for configuration, detail in manual;<br>• added BACnet device property (Active COV Subscriptions);<br>• added BACnet objects for additional mode in 4I4O.<br><br>**Improvements:**<br>• improved configuration of flag Out Of Service and Override in Digital Outputs and Analog Outputs;<br>• added COV Increment for Universal Inputs and Analog Outputs;<br>• BACnet Out Of Service for UI and BI with the possibility of overwriting present value<br>• BACnet Analog Output and Binary Output priority table reset after watchdog was triggered;<br>• improved resistance measurement on universal input for increased accuracy of PT1000 and NI1000;<br>• reading new IP address after reload settings;<br>• added flag Send Modbus Error;<br>• improved socket service interface for Modbus protocol;<br>• added PHY reset when error was detected (improved Ethernet stability);<br>• protocol Type has moved to IP Configuration on built-in web page;<br>• improved mode in 4I4O;<br>• disable BACnet protocol when Dipswitch are set to Modbus.<br><br>**Fixed Bugs:**<br>• fixed temperature sensor configuration for universal input. |

The list below contains modifications and new features since the release of software bundle version 2.7.

| NAME | DESCRIPTION |
|---|---|
| **iSMA-B-MINI-IP Ver. 2.8** Release date 23 Sep 2015 | **Fixed Bugs:**<br>• resolved problem with BACnet hanging after device reset. |

**iSMA-B-MINI-IP Software Bundle 2.7**                                                    **28 Aug 2015**

The list below contains modifications and new features since the release of software bundle version 2.2.

| NAME | DESCRIPTION |
|---|---|
| **iSMA-B-MINI-IP Ver. 2.7** Release date 28 Aug 2015 | **Improvements:**<br>• added functionality to make edit User Baud Rate on the built-in web page;<br>• improvement of error codes in Modbus TCP;<br>• additional login 'platform' to the built-in web page. |

**iSMA-B-MINI-IP Software Bundle 2.2**                                                    **6 Aug 2015**

The list below contains modifications and new features since the release of software bundle version 2.0.

| NAME | DESCRIPTION |
|---|---|
| **iSMA-B-MINI-IP Ver. 2.2** Release date 6 Aug 2015 | **Improvements:**<br>• improved layout on built-in web page;<br>• improved  saving to EEPROM (counters after restore default settings was not saved). |

The list below contains modifications and new features since the release of software bundle version 1.0.

| NAME | DESCRIPTION |
|---|---|
| **iSMA-B-MINI-IP Ver. 2.0** Release date 13 Jul 2015 | **New Functionalities:** • added IO watchdog for AO (the built-in web page reset IO watchdog); • added hand properties in BACnet. **Improvements:** • improved logic in 4I4O; • Watchdog default set to 0; • improved filter for universal input - may accept value 0; • added 0,1Hz and 0,01Hz PWM modes for analog outputs. **Fixed Bugs:** • resolved problem with saving counters in 4I4O; • corrections on the built-in web page. |

**iSMA-B-MINI-IP Software Bundle 1.0**                                    **1 Jul 2015**

| NAME | DESCRIPTION |
|---|---|
| **iSMA-B-MINI-IP Ver. 1.0** Release date 1 Jul 2015 | First release. |